

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
22 February 2001 (22.02.2001)

PCT

(10) International Publication Number  
**WO 01/11949 A1**

- (51) International Patent Classification<sup>7</sup>: **A01K 67/00**, 67/033, A61K 38/43, C07K 1/00, C12N 9/00
- (74) Agent: **WHITE, John, P.**; Cooper & Dunham LLP, 1185 Avenue of the Americas, New York, NY 10036 (US).
- (21) International Application Number: **PCT/US00/22060**
- (22) International Filing Date: 11 August 2000 (11.08.2000)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
09/374,586 13 August 1999 (13.08.1999) US
- (63) Related by continuation (CON) or continuation-in-part (CIP) to earlier application:  
US 09/374,586 (CIP)  
Filed on 13 August 1999 (13.08.1999)
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
- Published:  
— With international search report.
- (71) Applicant (*for all designated States except US*): **THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK [US/US]**; West 116th Street and Broadway, New York, NY 10036 (US).
- (72) Inventor; and
- (75) Inventor/Applicant (*for US only*): **PINSKY, David, J.** [US/US]; 23 Kennedy Road, Cresskill, NJ 07626 (US).
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: **CD39/ECTO-ADPASE FOR TREATMENT OF THROMBOTIC AND ISCHEMIC DISORDERS**

(57) Abstract: The present invention provides a method of treating or preventing thrombotic or ischemic disorders in a subject which comprises administering an agent to the subject, wherein the agent inhibits ADP-mediated platelet aggregation by increasing ADP catabolism, and a method for determining whether a compound inhibits platelet aggregation by increasing ADP catabolism so as to treat or prevent thrombotic or ischemic disorders in a subject, comprising: a) inducing thrombotic or ischemic disorders in an animal, which animal is an animal model for thrombotic or ischemic disorders; b) measuring the stroke outcome in said animal; c) measuring platelet deposition and/or fibrin deposition in ischemic tissue; and d) comparing the stroke outcome in step (b) and the platelet deposition and/or fibrin deposition with that of the animal model in the absence of the compound so as to identify a compound capable of treating or preventing thrombotic or ischemic disorders in a subject.

BEST AVAILABLE COPY

WO 01/11949 A1